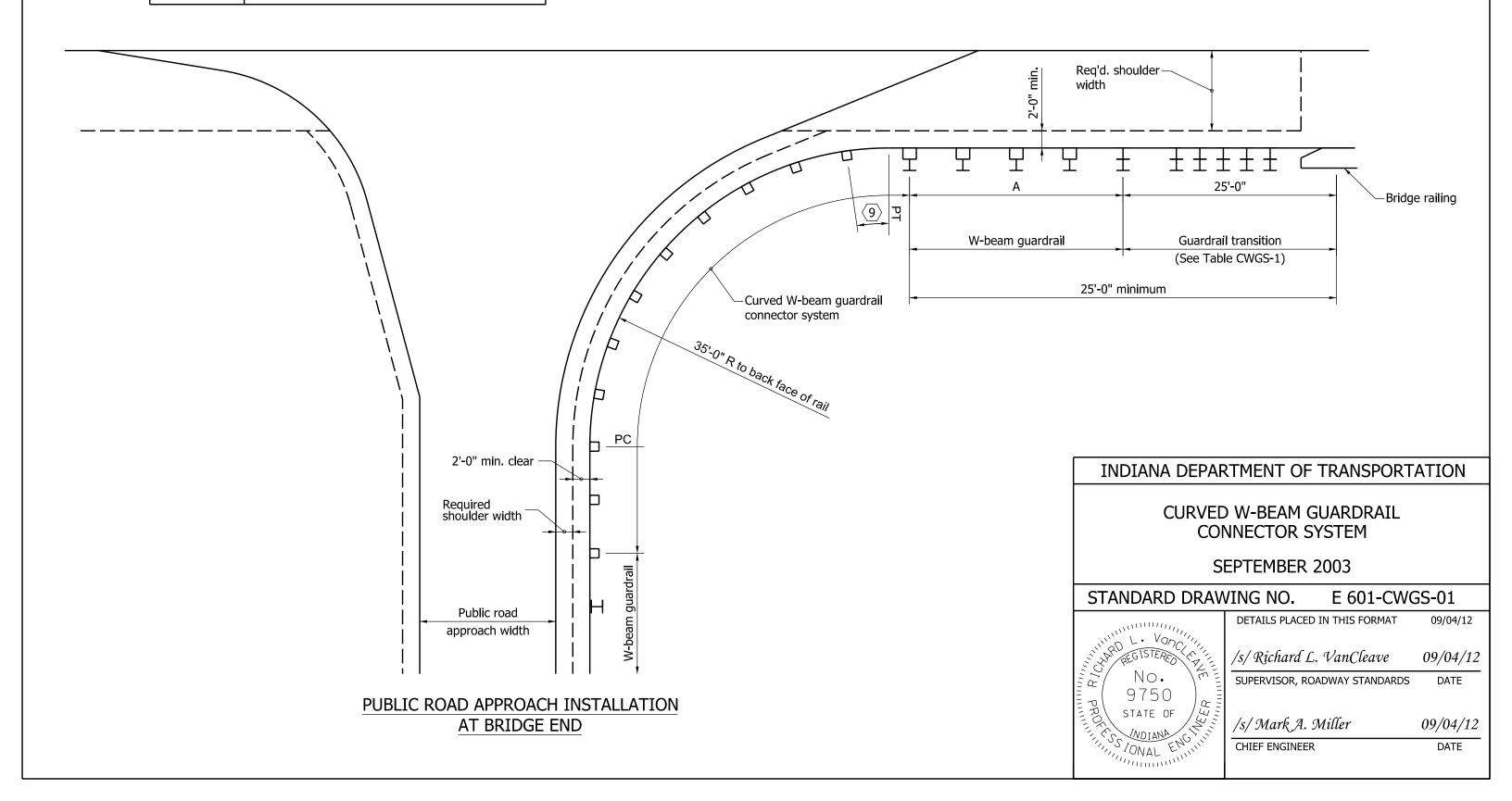
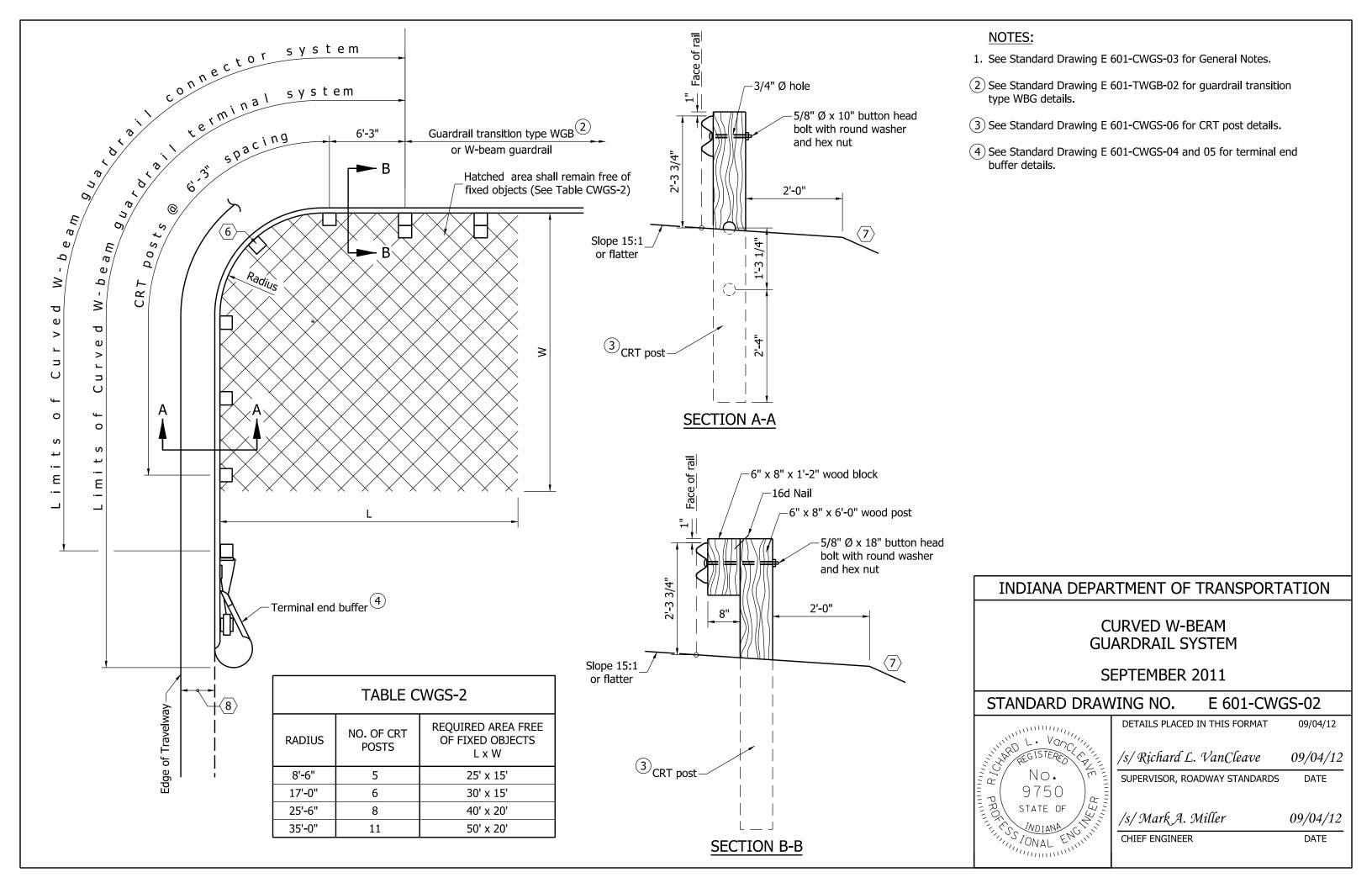
TABLE CWGS-1			
А	GUARDRAIL TRANSITION		
< 25'	Type WGB		
<u>></u> 25'	Type TGB		

NOTES:

1. See Standard Drawing E 601-CWGS-03 for General Notes.





GENERAL NOTES

- 1. This drawing shall be used in conjunction with Standard Drawings E 601-CWGS-01 through -06, and E 601-CWGT-01 and -02 where a curved W-beam guardrail system is specified.
- 2. The type of curved W-beam guardrail system to be used shall be as shown on the plans in accordance with Table CWGS-3.
- 3. Except where otherwise shown, all hardware and installation shall be the same as for the guardrail specified for the adjacent run.
- 4. A curved W-beam guardrail terminal system shall be used to terminate a run of guardrail only at a driveway. For a public road approach, a curved W-beam guardrail connector system shall be used.
- 5. A maximum of two guardrail panels may be omitted from the curved W-beam guardrail terminal system only where the bridge railing falls outside of the clear zone and the plans specifically state that panels are to be omitted. See Table CWGS-03 for the number of guardrail panels to be removed for each type of curved W-beam guardrail system.
- $\langle 6 \rangle$ For the 8'-6" radius curved W-beam guardrail terminal system, guardrail shall not be bolted to this post.
- $\langle 7 \rangle$ The embankment slope behind the curved W-beam guardrail system shall be 2:1 or flatter.
- $\langle 8 \rangle$ A minimum 4 ft width shoulder shall be used with a 15 ft minimum drive
- (9) This dimension shall be 5 ft for the 35 ft radius curved W-beam quardrail connector system.

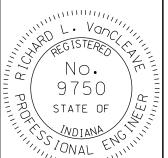
TABLE CWGS-3			
CURVED W-BEAM GUARDRAIL SYSTEMS			
TYPE	RADIUS	NUMBER OF 6'-3" PANELS REMOVED	
TERMINAL SYSTEM			
1	8'-6"	0	
2	8'-6"	1	
3	8'-6"	2	
4	17'-0"	0	
5	17'-0"	1	
6	17'-0"	2	
7	25'-0"	0	
8	25'-0"	1	
9	25'-0"	2	
CONNECTOR SYSTEM			
1	25'-0"	0	
2	35'-0"	0	

INDIANA DEPARTMENT OF TRANSPORTATION

CURVED W-BEAM GUARDRAIL SYSTEM

SEPTEMBER 1999

STANDARD DRAWING NO. E 601-CWGS-03



DETAILS PLACED IN THIS FORMAT

/s/Richard L. VanCleave

09/04/12

09/04/12

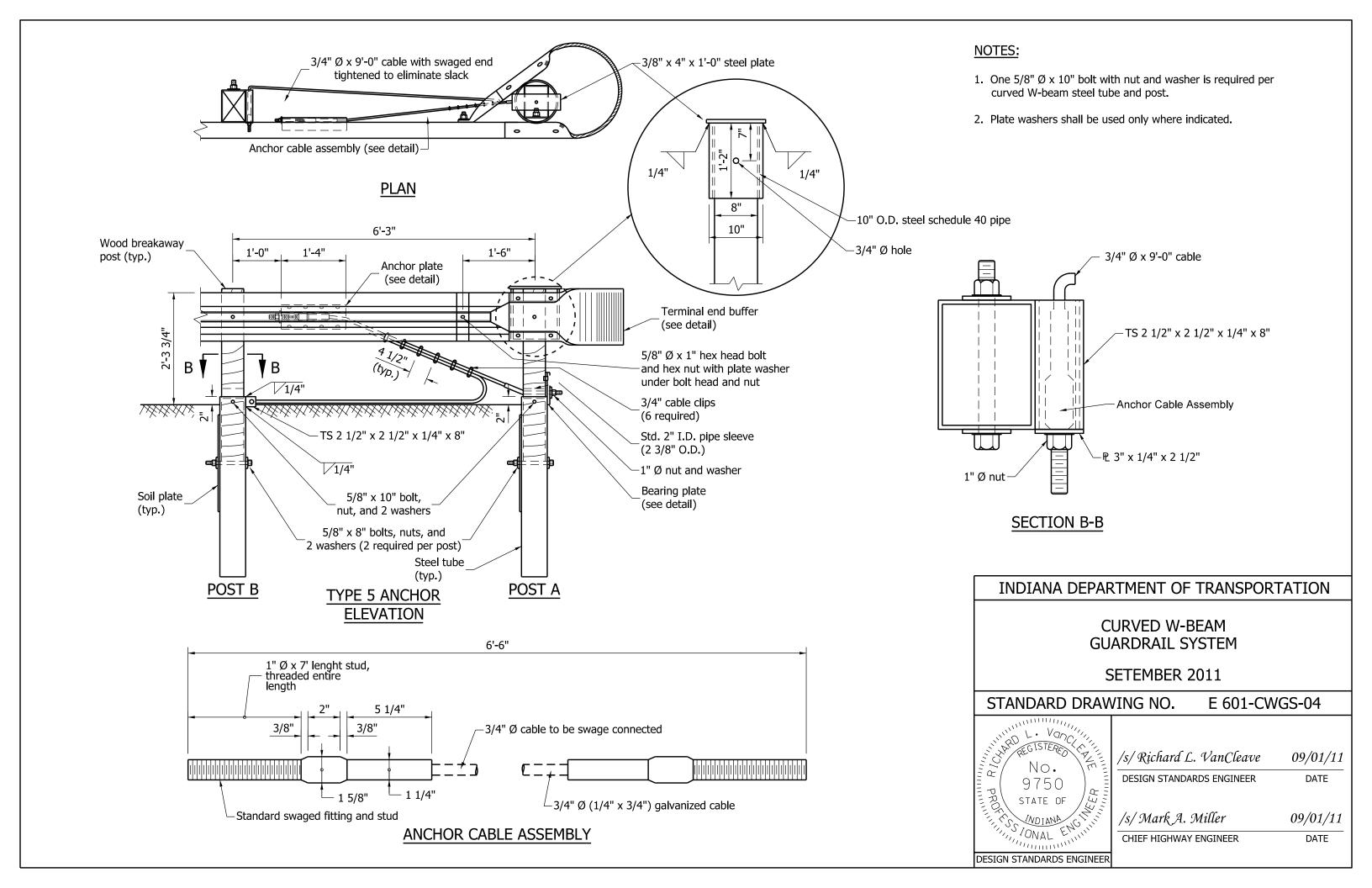
09/04/12

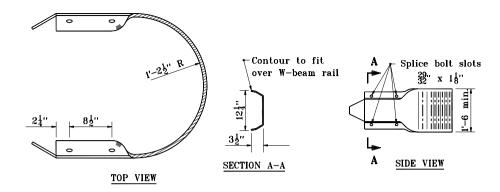
SUPERVISOR, ROADWAY STANDARDS

DATE

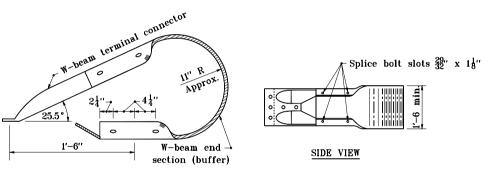
/s/ Mark A. Miller

CHIEF ENGINEER DATE



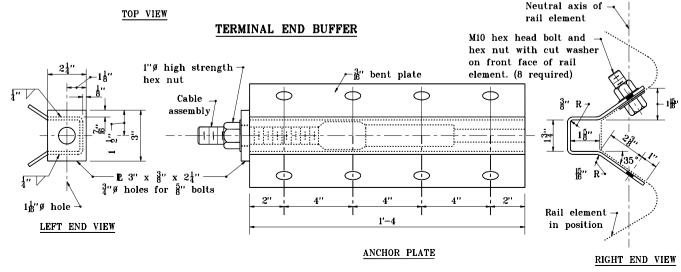


W-BEAM END SECTION (BUFFER)



GENERAL NOTES

- 1. This sheet shall be used in conjuction with Standard Drawings E 601-CWGS-01, 02, 03, and 06.
- 2. An alternate single piece having a similar dimensional shape to the terminal end buffer and mating with the W-beam guardrail may be
- 3. The W-beam terminal connector shall be steel of 0.138 inch thickness (10 gauge).
- 4. If the W-beam terminal connector is lapped on the outside of the guardrail, a galvanized 1" I.D. 2" O.D., 0.134" thick, narrow plain washer shall be placed under the splice bolt heads.
- 5. Attach the W-beam to the steel pipe with a \(\frac{5}{4} \)" diameter x 1\(\frac{1}{4} \)" length button head bolt with no washer. No connection to the post is required.
- 6. Nuts for the anchor cable assembly shall be hand tightened, plus one complete turn at the anchor plate end. All other nuts shall be torqured to 50 ft.-lbs.



INDIANA DEPARTMENT OF TRANSPORTATION CURVED W-BEAM

GUARDRAIL SYSTEM

APRIL 1996

ESIGN STANDARDS ENGINEER



